

PATENT CLAIMS

- SC/BS*
1. Moulding composition for the production of sanitary-ware components, comprising a methyl-methacrylate-based syrup and from 50 to 85%, expressed in terms of the moulding composition, of an inorganic filler, characterised in that the moulding composition furthermore comprises elastomer particles or elastomer particle aggregates having a particle size smaller than 100 μm in an amount in the range of 5 % by weight to < 20 % by weight, expressed in terms of the mass of the syrup.
- 10 2. Moulding composition according to Claim 1, characterised in that the syrup comprises PMMA with a molecular weight (M_w) of from 50,000 to 250,000 in an amount of up to 20 % by weight, expressed in terms of the mass of the syrup.
- 15 3. Moulding composition according to Claim 1 ~~or 2~~, characterised in that it contains a proportion of from 10 to 18 % by weight of the elastomer particles or elastomer particle aggregates, expressed in terms of the mass of the syrup.
- 20 4. Moulding composition according to ~~one of Claims 1 to 3~~, characterised in that the elastomer of the particles or aggregates consists of partially crosslinked polymer.
- 25 5. Moulding composition according to ~~one of the preceding claims~~, characterised in that the elastomer particles have a core/shell structure, the core being formed by an elastomer and the shell from a matrix-compatible polymer which is essentially insoluble in the syrup.
- 30 6. Moulding composition according to Claim 5, characterised in that the shell is chemically bonded to the core elastomer.
- Claim 1*
- Claim 1*

7. Moulding composition according to Claim 5 or 6, characterised in that the shell comprises a thermoplastic polymer.

8. Moulding composition according to Claim 5 or 6, 5 characterised in that the shell comprises a partially crosslinked polymer.

9. Moulding composition according to ^{Claim 5} one of Claims 5 to 8, characterised in that the shell is swellable in the syrup of the moulding composition.

10. Moulding composition according to ^{Claim 5} one of Claims 5 to 9, characterised in that the shell comprises an acrylate polymer.

11. Moulding composition according to ^{Claim 1} one of the preceding claims, characterised in that the core consists of a partially crosslinked polysiloxane, which is grafted with an acrylate monomer to form the shell.

12. Moulding composition according to ^{Claim 5} one of Claims 5 to 11, characterised in that the proportion by weight of the core in the core/shell elastomer particles amounts to a proportion of from 40 to 60 % by weight.

13. Moulding composition according to ^{Claim 1} one of the preceding claims, characterised in that the filler content is from 60 to 80 % by weight, expressed in terms of the moulding composition.

14. Sanitary-ware component, produced using a moulding composition according to ^{Claim 1} one of Claims 1 to 13.

15. Sanitary-ware component in the form of a kitchen sink according to ^{Claim 14} 14, the bottom thickness of the kitchen sink being less than 7 mm.

16. Kitchen sink according to Claim 15, characterised in that the bottom thickness is \leq 5 mm.